TE CA84-04/10/84

KRUEGER ENTERPRISES, INC.
GEOCHRON LABORATORIES DIVISION

24 BLACKSTONE STREET • CAMBRIDGE, MA. 02139 • (617)-876-3691

PRD 980594709

STABLE ISOTOPE RATIO ANALYSES — REPORT OF ANALYTICAL WORK

Submitted by:
Law Engineering Testing Co.
2749 Delk Road
Marietta, GA 30067

Date Received: 4/4/84
Date Reported: 4/10/84
Your Reference: Job #GS3223
Work Order #11693
Ponce Waste Facility (EPA ID #PRD 980594709)

Our Lab. Number	Your Sample Number	Description	Analysis*
			δS^{34}
HSCOR-29246		Monitoring Well #8 Water Resampled	+ 7.4

*Unless otherwise noted, all analyses are reported in ‰ notation and are computed as follows:

$$\delta R_{sample}‰ = \left[\frac{R_{sample}}{R_{standard}} - 1\right] \times 1000$$

Where:

		And:	
D/H	standard is SMOW	$R_{standard}$	= 0.000316**
C^{13}/C^{12}	standard is PDB	$R_{standard}$	= 0.011237
O^{18}/O^{16}	standard is SMOW	$R_{standard}$	= 0.0039948**
S^{34}/S^{32}	standard is Cañon Diablo troilite	$R_{standard}$	= 0.0450045

**Double atom ratio

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Our Lab. Number	Your Sample Number	Description	Analysis*
			δD
HSCOR-29246		Monitoring Well #8 Water Resampled	-19

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$$\delta R_{sample}‰ = \left[\frac{R_{sample}}{R_{standard}} - 1\right] \times 1000$$

Where:

D/H	standard is SMOW
C^{13}/C^{12}	standard is PDB
O^{18}/O^{16}	standard is SMOW
S^{34}/S^{32}	standard is Cañon Diablo troilite

And:

$R_{standard} = 0.000316$**
$R_{standard} = 0.011237$
$R_{standard} = 0.0039948$**
$R_{standard} = 0.0450045$

**Double atom ratio

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STABLE ISOTOPE RATIO ANALYSES — **REPORT OF ANALYTICAL WORK**

Submitted by:
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2749 Delk Road, S.E.
Marietta, GA 30067

Date Received: 3/23/84
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Your Reference: Job #GS3223
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Ponce Waste Facility (EPA ID #PRD 980594709)

Our Lab. Number	Your Sample Number	Description	Analysis*
			δS^{34}
HSCOR-29008	Monitoring Well #2	Sulfate	-3.8
HSCOR-29009	" " #3	"	-8.0
HSCOR-29010	" " #4	"	-15.8
HSCOR-29011	" " #6	"	-9.9
HSCOR-29012	" " #7	"	-11.3
HSCOR-29013	" " #8	"	+17.9
HSCOR-29014	Drilling Water	"	+2.1

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Where:

D/H	standard is SMOW
C^{13}/C^{12}	standard is PDB
O^{18}/O^{16}	standard is SMOW
S^{34}/S^{32}	standard is Cañon Diablo troilite

And:

$R_{standard}$ = 0.000316**
$R_{standard}$ = 0.011237
$R_{standard}$ = 0.0039948**
$R_{standard}$ = 0.0450045

**Double atom ratio

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Our Lab. Number	Your Sample Number	Description	Analysis* δS^{34}
SHOR-29015	S-1	Sulfate From Surface Water	+7.4
SHOR-29016	S-2	" "	too small
SHOR-29017	S-3	" "	+8.9
SHOR-29018	S-4	" "	too small
SHOR-29019	S-5	" "	-0.2
SHOR-29020	S-6	" "	+6.1

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$$\delta R_{sample}^{‰} = \left[\frac{R_{sample}}{R_{standard}} - 1\right] \times 1000$$

Where:

D/H standard is SMOW
C^{13}/C^{12} standard is PDB
O^{18}/O^{16} standard is SMOW
S^{34}/S^{32} standard is Cañon Diablo troilite

And:

$R_{standard}$ = 0.000316**
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$R_{standard}$ = 0.0039948**
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**Double atom ratio